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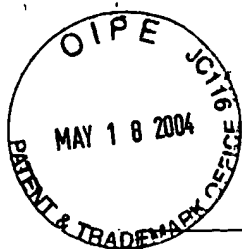
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/066,094
	Filing Date	01/31/2002
	First Named Inventor	Steven Teig
	Group Art Unit	2826
	Examiner Name	Mandala, V.
Total Number of Pages in This Submission	Attorney Docket Number	SPLX.P0080

Enclosures (Check all that apply)		
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Firm Or Individual name	Mani Adeli, Reg. No. 39,585 of Stattler Johansen & Adeli LLP	
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PATENT
Docket No. SPLX.P0080

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Mani Adel

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Steven Teig, et al.

Serial No.: 10/066,094

Filing Date: 1/31/2002

For: CIRCULAR VIAS AND
INTERCONNECT-LINE TERMINATIONS

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

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Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, applicants submit with this Information Disclosure Statement the attached Form PTO-1449, and copies of the documents listed in the 1449 form for consideration by the Examiner. The Examiner is requested to make these documents of record. Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to

the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

This Information Disclosure Statement is submitted within three months of the application filing date or before the mailing date of a first Office Action on the merits; accordingly, no fee or separate requirements are required.

However, in the unlikely event that the Patent Office determines that additional fees, extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 50-1128** referencing SPLX.P0080. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

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Respectfully submitted,

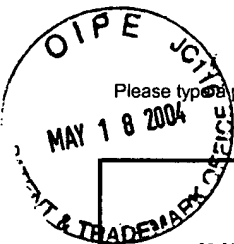
By: _____

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/066,094
				Filing Date	1/31/02
				First Named Inventor	Steven Teig et al.
				Group Art Unit	2826
				Examiner Name	Mandala, Victor
Sheet	1	of	3	Attorney Docket Number	SPLX.P0080

RELATED U.S. PATENT APPLICATIONS						
Examiner Initials	Cite No. ¹	U.S. Patent Application		Name of Patentee or Applicant of Cited Document	Date of Filing MM-DD-YYYY	Related Application Data
		Serial Number	Attorney Docket Number			
	1.	10/066,060	SPLX.P0072	Steven Teig	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	2.	10/066,160	SPLX.P0073	Steven Teig et al.	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	3.	10/066,095	SPLX.P0074	Steven Teig et al.	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	4.	10/066,047	SPLX.P0078	Steven Teig et al.	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	5.	10/061,641	SPLX.P0079	Steven Teig et al.	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	6.	10/076,121	SPLX.P0081	Steven Teig	02-12-2002	CIP of the present application.
	7.	10/062,995	SPLX.P0105	Steven Teig et al.	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	8.	10/066,102	SPLX.P0106	Steven Teig	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	9.	10/066,187	SPLX.P0133	Steven Teig et al.	01-31-2002	Application with the same specification and drawings as the present application, with the exception of summary and abstract.
	10.	10/233,202	CDN.P0008	Steven Teig	08-28-2002	Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application.
	11.	10/229,196	CDN.P0009	Steven Teig	08-26-2002	Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application.

Examiner Signature		Date Considered	
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				Filing Date	1/31/02
				First Named Inventor	Steven Teig et al.
				Group Art Unit	2826
				Examiner Name	Mandala, Victor
Sheet	2	of	3	Attorney Docket Number	SPLX.P0080

RELATED U.S. PATENT APPLICATIONS						
	12.	10/288,870	CDN.P0010	Steven Teig	11-06-2002	Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application.
	13.	10/219,923	CDN.P0011	Steven Teig	08-14-2002	Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application.

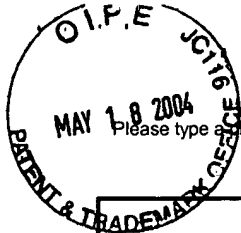
FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. ¹	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code (if known) ⁵				
.	14.	JP	03-173471		07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	√
.	15.	JP	04-000677		01-06-1992	Fujiwara et al.	with English translation of Abstract;	
	16.	JP	05-102305		04-23-1993	Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	√
	17.	JP	05-243379		09-21-1993	Kubota	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	√
	18.	JP	07-086407		03-31-1995	Miura	with Japanese Patent Office's English translation of Abstract;	√

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				Filing Date	1/31/02
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				Group Art Unit	2826
				Examiner Name	Mandala, Victor
Sheet	3	of	3	Attorney Docket Number	SPLX.P0080

FOREIGN PATENT DOCUMENTS							
						and with English translation of the application.	
	19.	JP	09-162279		06-20-1997	Yoshida	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
	20.	JP	2000-082743		03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

NON PATENT LITERATURE DOCUMENTS				
Examiner's Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	21.	Berger, B. et al., Nearly Optimal Algorithms and Bounds for Multilayer Channel Routing, Journal of the Association for Computing Machinery, pp. 500-542, March 1995.		
	22.	Chen, H., Routing L-Shaped Channels in Nonslicing-Structure Placement. 24 th ACM-IEEE Design Automation Conference, pp. 152-165, 1987.		
	23.	Cheng, K. et al., Manhattan or Non Manhattan? A Study of Alternative VLSI Routing Architectures, pp 47-52, 2000.		
	24.	Chiang, C. et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.		
	25.	NN71091316, Use of Relatively Diagonal And Rectangular Wiring Planes n Multilayer Packages, September 1971, IBM Technical Disclosure Bulletin, Vol. No. 14, Issue No. 4, pp. 1316-1317.		
	26.	Overtone, G., EDA Underwriter 2 Finding Space in a Multi-Layer Board, Electronic Engineering, Morgan-Grampian LTD, March 1995, vol. 67, no. 819, pp 29-30.		

Examiner Signature	Date Considered
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